

REMARKS

All the rejections are made over US '685, and are thus, discussed together herein.

None of the various embodiments of US '685 teach or suggest the presently claimed invention.

The embodiments of figures 1 and 2 of US '685 are very similar to each other and will be discussed together, as they were also discussed together in US '685. See figures 1 and 2 and the corresponding disclosure on columns 5-9.

In Figure 1, a heater is not provided on the SiO collection duct 34, which connects a furnace (reaction chamber) 10 with SiO collection device. Moreover, SiO collection filter 48 covering one end 46 of a duct 44 having a vacuum passage 42 serves to collect SiO particles drawn into the collection chamber through collection duct 34. No coolant circuit in which a coolant flows is provided in the disclosed apparatus.

The apparatus of figure 2 has the same shortcomings as the apparatus of figure 1 when considering its teachings toward the present invention.

Neither embodiment of figures 1 and 2 teaches or provides a reason to include a heater on the collection duct or a coolant circuit in the collection chamber. Indeed, none of the various embodiments disclosed in US '685 teach or suggest a coolant circuit in the deposition chamber at all.

As evident from the reference's disclosure, the apparatus of US '685 are not equipped with temperature control means or mechanism as the apparatus of the present claims.

Indeed the embodiments of US '685 correspond more to applicants' comparative examples 1 and 2 rather than to the claimed invention.

As such, the claims of the present application are not obvious over the disclosure of US '685.

Reconsideration is respectfully requested.

The Commissioner is hereby authorized to charge any fees associated with this response or credit any overpayment to Deposit Account No. 13-3402.

Respectfully submitted,

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